

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/658,459	09/10/2003	Ray Sircy Ruemekorf	2001-1288	2231
466	7590 04/21/2006		EXAMINER	
YOUNG & THOMPSON			KUNEMUND, ROBERT M	
745 SOUTH 2ND FLOOR	23RD STREET		ART UNIT	PAPER NUMBER
ARLINGTO	N, VA 22202		1722	
			DATE MAILED: 04/21/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/658,459	RUEMEKORF ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Robert M. Kunemund	1722				
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DONA IN THE MAIL	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONEI	I. sely filed the mailing date of this communication. O (35 U.S.C. § 133).				
Status							
1)[🖂	⊠ Responsive to communication(s) filed on <u>06 February 2006</u> .						
		action is non-final.					
3)[Since this application is in condition for allowar	nce except for formal matters, pro	secution as to the merits is				
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
4)⊠	Claim(s) <u>19-29</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	5) Claim(s) is/are allowed.						
6)⊠	S)⊠ Claim(s) <u>19-29</u> is/are rejected.						
7)	Claim(s) is/are objected to.						
8)	Claim(s) are subject to restriction and/o	r election requirement.					
Applicat	ion Papers						
9)[9) The specification is objected to by the Examiner.						
10)	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119							
a)	 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachmen	et(s) ce of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO-413)				
2)	the of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date	Paper No(s)/Mail Da					

Art Unit: 1722

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wilsak (6,565,653) in view of GB 1,453,645.

The Wilsak reference teaches an apparatus for the separation of crystals, note entire reference. The slurry is fed into a first crystallizer. The output from the crystallizer is piped into a separator. Some of the crystals are separated into a separate output from the separator. The other output from the separator is then piped into a second crystallizer. The output from the second crystallizer is feed into a second separator, which separate the crystal form the mother liquid into two streams, note figures. The sole difference between the instant claims and the prior art is the recycle to the first crystallizer. However, the GB 1,453,645 reference teaches an apparatus for

Page 3

crystallization and separation, where the output from the separator, concentrated solvent is then r3ecycled back to the first crystallizer, note figures. It would have been obvious to one of ordinary skill in the art to modify the Wilsak reference by the teachings of the GB 1,453,645 reference to have a recycle in order to prevent clogging in the pipes of the first feed.

Claims 20 to 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wilsak (6,565,653) in view of GB 1,453,645.

The Wilsak and GB 1,453,645 references are relied on for the same reasons as stated, supra, and differ from the instant claims in the separator type and the recycle feed placement. However, in the absence of unexpected results, it would have been obvious to one of ordinary skill in the art to determine through routine experimentation the optimum, operable separator type and recycle placement in the combined references in order to enhance the efficiency of the crystallization and separation.

Response to Applicants' Arguments

Applicant's arguments filed February 6, 2006 have been fully considered but they are not persuasive.

Applicants' argument concerning the Wilsak reference has been considered and not deemed persuasive. The Wilsak reference does in fact show in figures 2 and 3 that there is a recycle from a separator after the second crystallizer back to the stream input Art Unit: 1722

prior to the first crystallizer. Thus, the apparatus, which is claimed is shown in the prior art. Further, applicants are arguing process steps, which do not further limit the apparatus limitations. The prior art need only be capable of the process and must teach the claimed structure.

Applicants' argument concerning UK 645 reference is noted. The reference does teach the claimed structure of crystallizers and separators and feed back loop. The combination of reference clearly teaches the entire claimed invention.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert M. Kunemund whose telephone number is 571-272-1464. The examiner can normally be reached on 8 hours.

Application/Control Number: 10/658,459

Art Unit: 1722

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yogendra Gupta can be reached on 571-272-1312. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RMK

ROBERT KUNEMUND PRIMARY EXAMINER Page 5